

Exhibit A - Patents and Patent Applications

Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
11451 A	Method For The Reduction Of Lateral Shrinkage In Multilayer Circuit Boards On A Support	Kumar, A. H. Prabhu, A. N. Thaler, B. J.	Sold	08/768243	10/1997	5876536	3/2/1998	US
11451 B	Method For The Reduction Of Lateral Shrinkage In Multilayer Circuit Boards On A Substrate	Kumar, A. H. Prabhu, A. N. Thaler, B. J.	Appended	08/765478	9/3/1998			US
11641	A Low Profile Multiple Module Package With Good Thermal Management Properties	Geller, B. D. Kumar, A. H. Prabhu, A. N. Thaler, B. J.	Granted	08/768052	12/18/1996	5847935	12/8/1998	US
12003	Integrated Electronic Circuit	Fahy, A. E. Geller, B. D. Perlow, S. M. Prabhu, A. N. Torrey, E. S.	Pending	10-520793	10/30/1997			JP



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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12003	Integrated Electronic Circuit	Fathy, A. E. Geller, B. D. Perlow, S. M. Prabhu, A. N. Tomney, E. S.	Granted	08860653	10/30/1997	5325510	7/27/1999	US
12003	Integrated Electronic Circuit	Fathy, A. E. Geller, B. D. Perlow, S. M. Prabhu, A. N. Tomney, E. S.	Granted	06115200	10/30/1997	127687	6/18/2001	TW
12003	Integrated Electronic Circuit	Fathy, A. E. Geller, B. D. Perlow, S. M. Prabhu, A. N. Tomney, E. S.	Published	87846420.3	10/30/1997			EP
12003	Integrated Electronic Circuit	Fathy, A. E. Geller, B. D. Perlow, S. M. Prabhu, A. N. Tomney, E. S.	Pending	99-7003713	10/30/1997			KR

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12055	Thick Ceramic On Metal Multilayer Circuit Board	Liberatore, M. J. Prabhu, A. N. Sreeram, A. N. Torrey, E. S.	Granted	08812172	3/6/1997	5065340	2/2/1999	US
12055	Ceramic Multilayer Printed Circuit Boards With Embedded Passive Components	Liberatore, M. J. Prabhu, A. N. Sreeram, A. N. Torrey, E. S.	Granted	67403293	3/2/1998	NH-120124	9/11/2000	TW
12055	Ceramic Multilayer Printed Circuit Boards With Embedded Passive Components	Prabhu, A. N. Torrey, E. S. Liberatore, M. J. Sreeram, A. N.	Pending	10-635549	3/4/1998			JP
12055	Ceramic Multilayer Printed Circuit Boards With Embedded Passive Components	Prabhu, A. N. Torrey, E. S. Liberatore, M. J. Sreeram, A. N.	Published	90910019.3	3/3/1998			EP



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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12055	Ceramic Multilayer Printed Circuit Boards With Embedded Passive Components	Prabhu, A. N. Torrey, E. S. Liberman, M. J. Szeem, A. N.	Pending	89-7006082	3/3/1998			KR
12232	Multilayer Ceramic Circuit Boards Including Embedded Capacitors	Prabhu, A. N. Szeem, A. N. Torrey, E. S.	Granted	080612151	3/3/1997	5953203	6/14/1999	US
12332 A	Multilayer Ceramic Circuit Boards Including Embedded Components	Prabhu, A. N. Szeem, A. N. Torrey, E. S.	Granted	09031745	2/27/1998	6055151	4/25/2000	US
12372 A	Multilayer Ceramic Circuit Boards With Embedded Resistors	Palamisamy, P. Prabhu, A. N. Torrey, E. S.	Pending	01-7010074	2/9/2000			KR
12372 A	Multilayer Ceramic Circuit Boards With Embedded Resistors	Palamisamy, P. Prabhu, A. N. Torrey, E. S.	Granted	09246535	2/9/1999	6392230	6/4/2002	US

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12372 A	Multi-Layer Ceramic Circuit Boards With Embedded Resistors	Palanisamy, P. Prabhu, A. N. Torrey, E. S.	Pending	00550340	25/2000			JP
12372 A	Multi-Layer Ceramic Circuit Boards With Embedded Resistors	Palanisamy, P. Prabhu, A. N. Torrey, E. S.	Published	00513404.0	25/2000			EP
12372 B	Multi-Layer Ceramic Circuit Boards With Embedded Resistors	Palanisamy, P. Prabhu, A. N. Torrey, E. S.	Pending	10141421	5/8/2002			US
12372	High Performance Embedded RF Films	Fathy, A. E. Geller, B. D. Liberstone, M. J. Sreeram, A. N. Thaler, B. J.	Appealed	09430652	10/29/1999			US

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12428	High Performance Embedded RF Filters	Fathy, A. E. Geller, B. D. Libenstern, M. J. Sreeram, A. N. Thaler, B. J.	Pending	00-575540	10/29/1999			EP
12428	High Performance Embedded RF Filters	Fathy, A. E. Geller, B. D. Libenstern, M. J. Sreeram, A. N. Thaler, B. J.	Published	599633947.1	10/29/1999			EP
13213	High Dielectric Constant Buried Capacitors With Extended Operating Temperature Ranges	Chen, H. D. Thaler, B. J.	Pending	01-7005648	11/5/1999			KR
13213	High Dielectric Constant Buried Capacitors With Extended Operating Temperature Ranges	Chen, H. D. Thaler, B. J.	Published	99957096.1	11/5/1999			EP

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
13213	High Dielectric Constant Buried Capacitors With Extended Operating Temperature Ranges	Chen, H. D. Thaler, B. J.	Granted	2003/0659	14/07/99	6300267	10/02/2001	US
13213	High Dielectric Constant Buried Capacitors With Extended Operating Temperature Ranges	Chen, H. D. Thaler, B. J.	Pending	00-78543	1/5/1999			JP

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